## **MS Excel Functions:**

=TODAY()	//outputs current date
=SUM(range)	//i.e: (cell1:cell2), calculates sum
=MAX(range)	//calculates highest value
=MIN(range)	//calculates lowest value
=COUNT(range)	//counts cells containing only numerical data
=COUNTA(range)	//counts all non-empty cells in range
=COUNTBLANK(range)	//counts empty cells in range
=AVERAGE(range)	//calculates average
=MEDIAN(range)	//calculates the range's middle value
=ROUND(cell, num digits)	//num_digits: no. of digits to display after decimal point;
(can also be performed on a value instead of a cell: =ROUND("number",num_digits))	
<i>related functions</i> : roundup, rounddown	
=IF(logical test, "value if true", "value if false")	
// checks for condition, if true performs the 1st, if false the 2nd.	
<i>Nested IFs</i> : " <i>value_if_true</i> ", " <i>value_if_false</i> " can be another IF (or other) function.	

## Other functions that use "IF" conditions:

=SUMIF(range, criteria, sum\_range) // "range": for checking condition, "sum\_range": for calculating sum note that: "range" & "sum\_range" can be the same. If not the same, they should be same size. =SUMIFS(sum\_range, range1, criteria1, range2, criteria2...) =COUNTIF(range, criteria) //note that: COUNTIF doesn't ignore non-numerical data =COUNTIFS(range1, criteria1, range2, criteria2...) //for multiple conditions =AVERAGEIF(range, criteria, average\_range) =AVERAGEIFS(average\_range, range1, criteria1, range2, criteria2...) //for multiple conditions

## Extra Notes:

To keep a cell constant after copying (to prevent relative addressing on that cell): **\$cell\_letter\$cell\_number** e.g: **\$A\$1** //(1st \$ for column, 2nd \$ for row)

"" are used when the value is *NOT*, or doesn't include, a cell name. (e.g.: =SUMIF(A1:A6,">2",A1:A6))

## Tips:

- Never use actual numbers if those numbers are in cells -use the cell's name instead. This even applies to words.

(e.g.: Tax: 10%; where "10%" is written in cell A5 should be written as:

Final Price:  $\sim + $A$5* \sim (Not: ~ + 10\%* \sim)$ 

- Be careful not to forget \$\$ on constant cells.

- Happy CSI200'ing :) AUST Student